```
append_assoc_2  THM

⊢  ∀'a:S, l1,l2,l3:'a List. (l1 @ l2 @ l3) = ((l1 @ l2) @ l3)
  by RewriteOfThm
     Thm* ∀'a:S.
          all
          (λl1:hlist('a). all
                          (λl2:hlist('a). all
                                          (λl3:hlist('a). equal
                                                          (append
                                                           (l1
                                                           ,append
                                                            (l2
                                                            ,l3))
                                                          ,append
                                                           (append
                                                            (l1
                                                            ,l2)
                                                            ,l3)))))
     {happend_assoc_2}
     (SimpsetC [‘hol_to_nuprl‘;‘bequal‘])
END
```