```
happend_assoc_2  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)))))
  by HOL "happend_assoc_2"
END
```