```
hevery_conj  THM

⊢  ∀'a:S.
   all
   (λQ:'a → hbool. all
                   (λP:'a → hbool. all
                                   (λl:hlist('a). equal
                                                  (every
                                                   ((λx:'a. and
                                                            (P(x)
                                                            ,Q(x)))
                                                   ,l)
                                                  ,and
                                                   (every(P,l)
                                                   ,every(Q,l))))))
  by HOL "hevery_conj"
END
```