```
hevery_def  THM

⊢  ∀'a:S.
|  and
|  (all(λP:'a → hbool. equal(every(P,nil),t))
|  ,all
|   (λP:'a → hbool. all
|                    (λh:'a. all
|                            (λt:hlist('a). equal
|                                           (every(P,cons(h,t))
|                                           ,and(P(h),every(P,t)))))))
| by HN
|
|\
| 1. 'a : S
| 2. P : 'a→𝔹
| ⊢  every(P;nil) = true₂  by RecUnfold `every` 0 THEN Simp
|
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. 1. 'a : S
. 2. P : 'a→𝔹
. 3. h : 'a
. 4. t : 'a List
. ⊢  every(P;cons(h; t)) = ((P(h))∧₂every(P;t))
.   by RW (AddrC [2] (RecUnfoldC `every`)) 0 THEN Simp
END
```