```
member_col_list_prod  THM

⊢  ∀T:Type, l:Collection(T) List, x:T List.
   x ∈ col_list_prod(l)
   ⟺
   ||x|| = ||l|| & (∀i:ℕ. i<||x|| ⇒ x[i] ∈ l[i])
  by RW ColMemberC 0 THEN Auto' THEN ExRepD THEN Auto
...
END
```